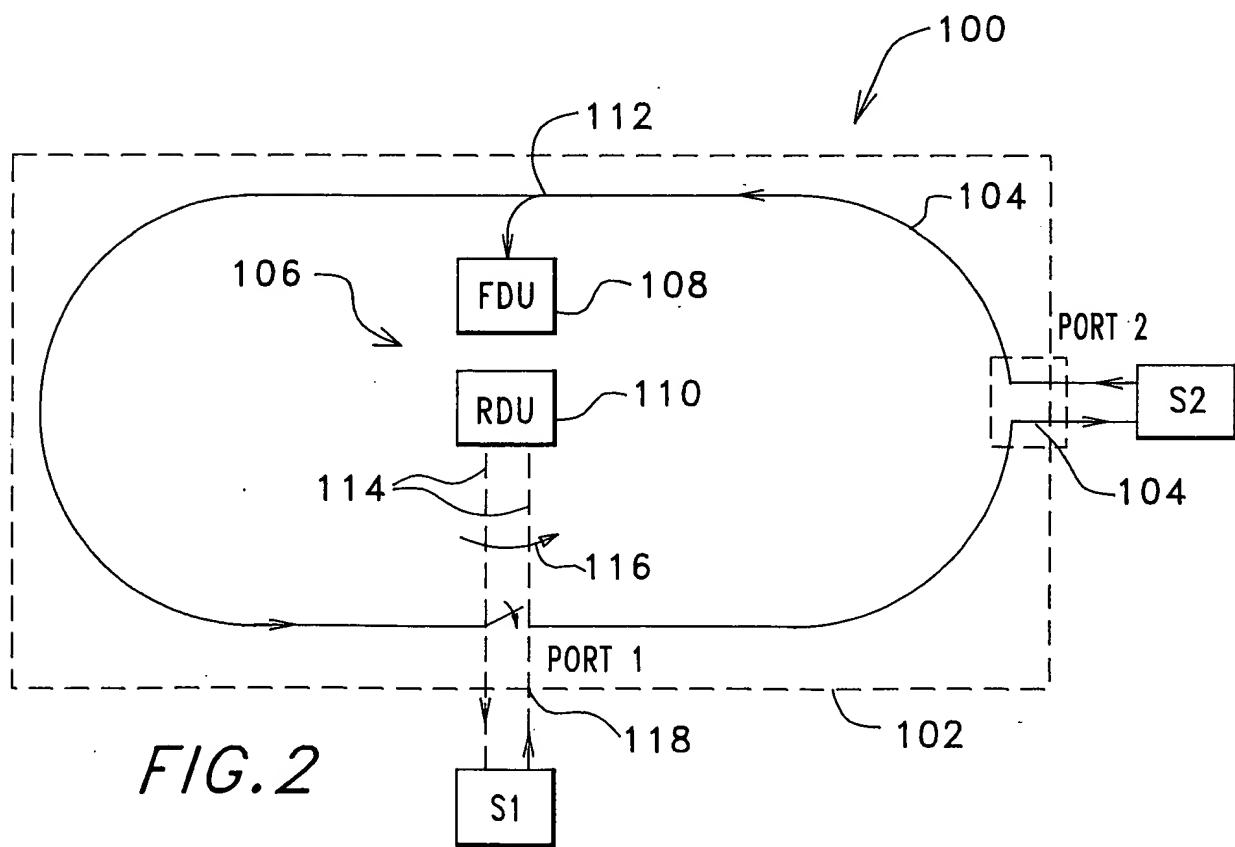
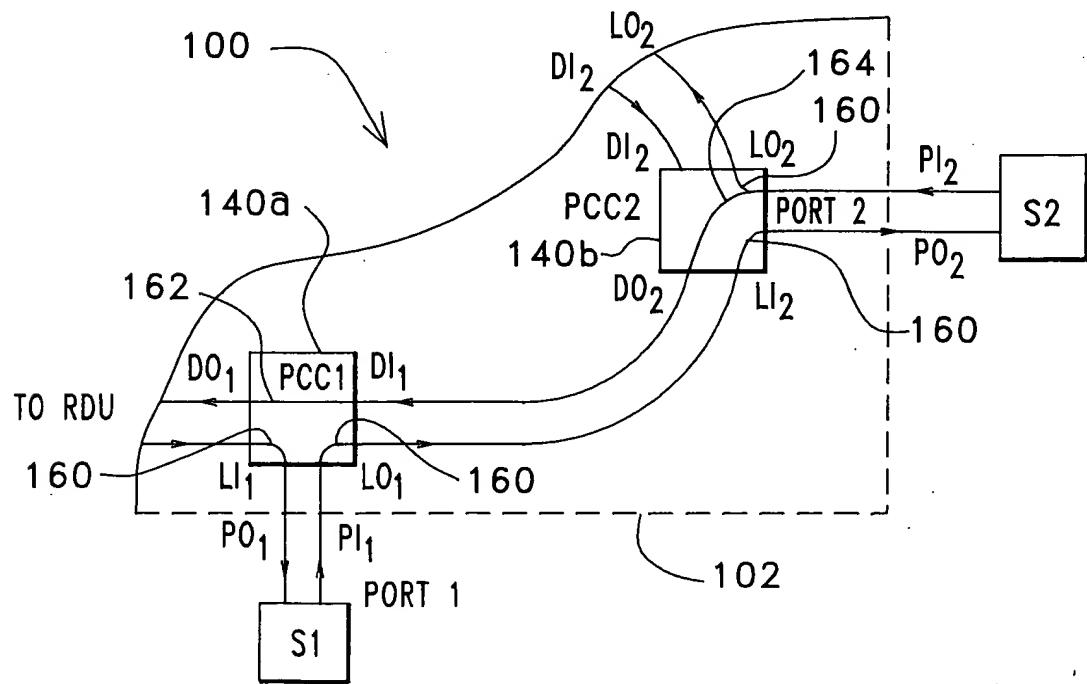
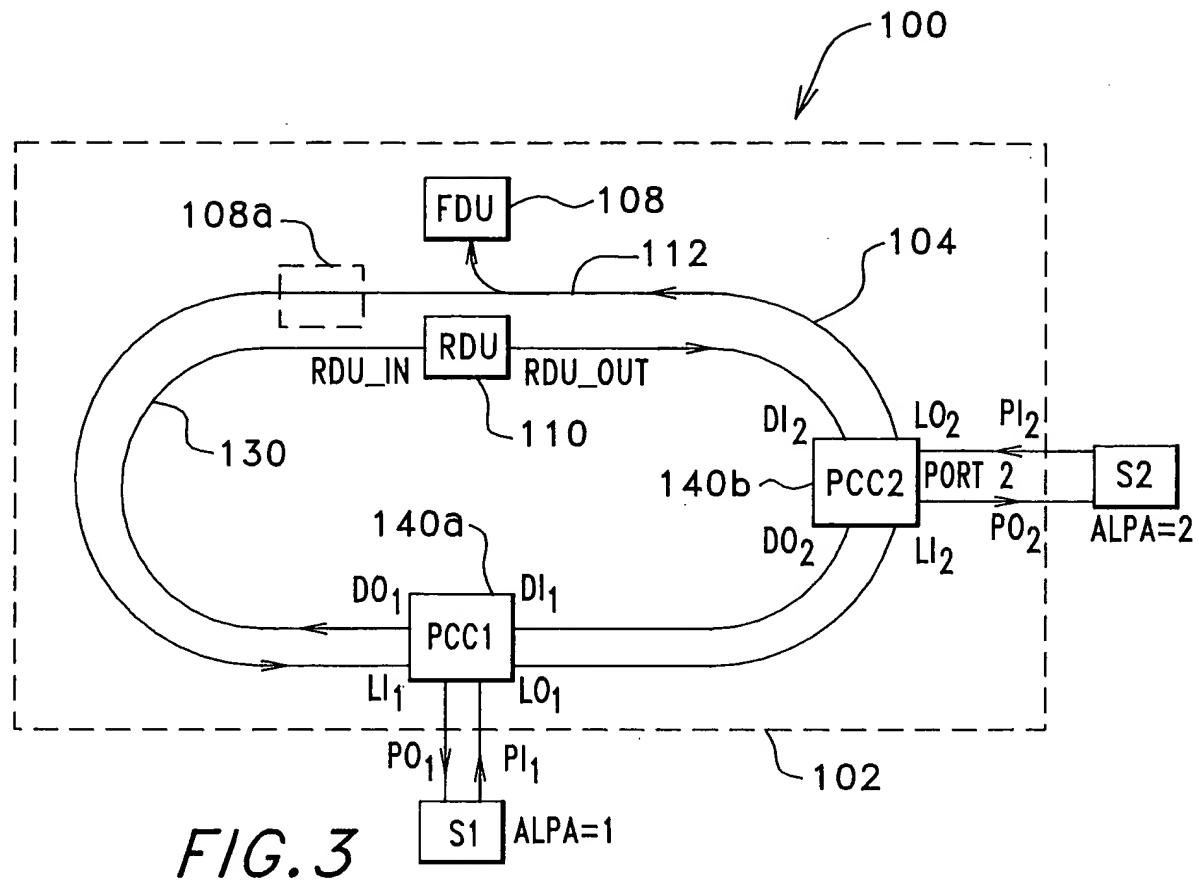


*FIG. 1  
(PRIOR ART)*



*FIG. 2*

**FIG. 5**

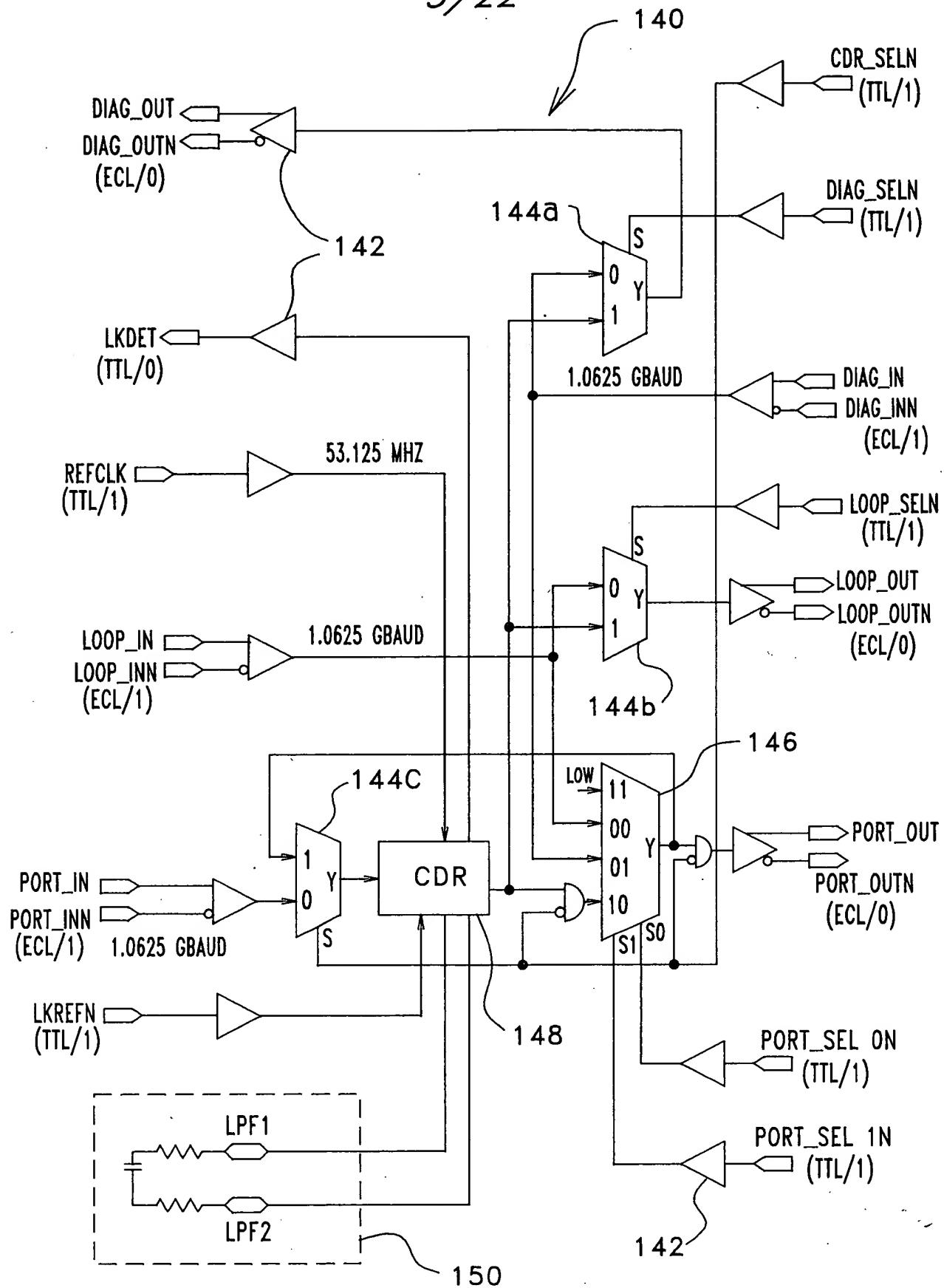
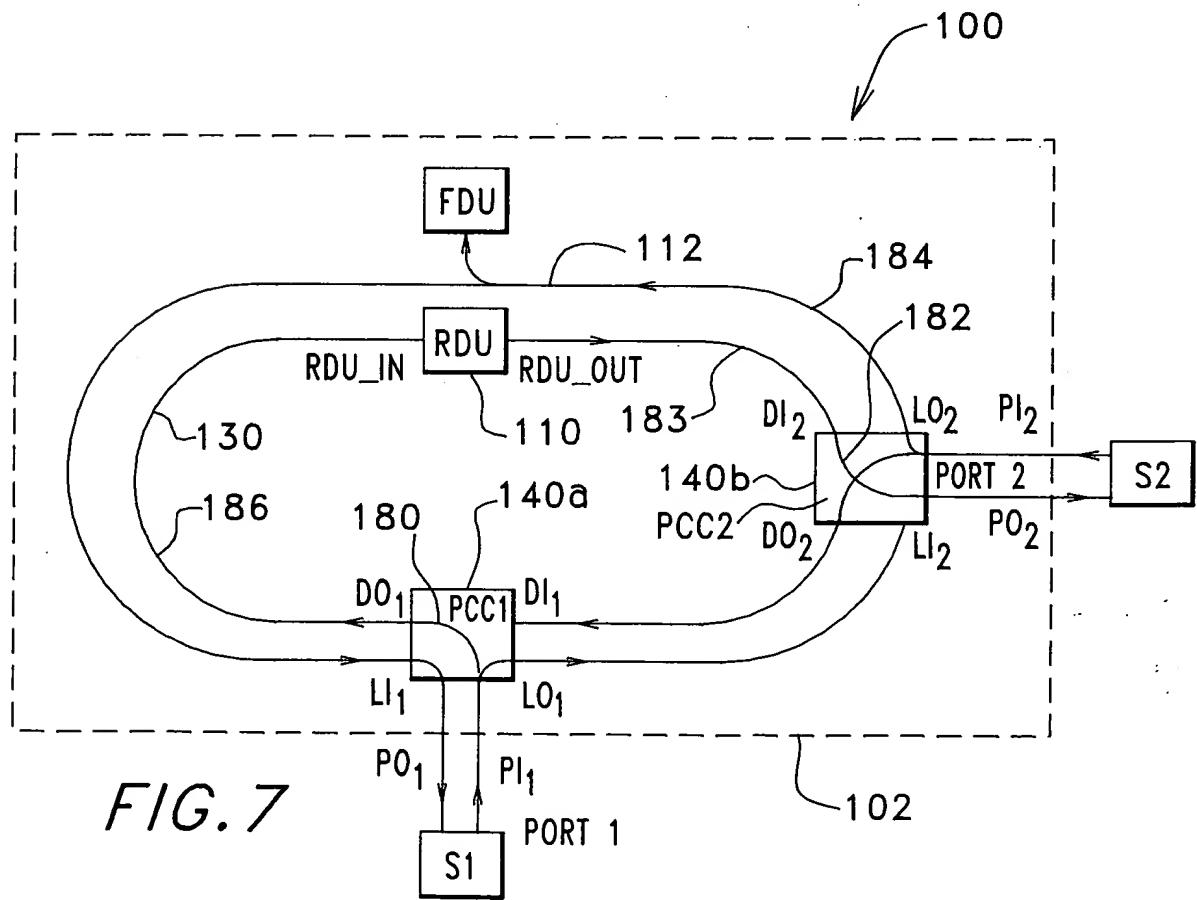
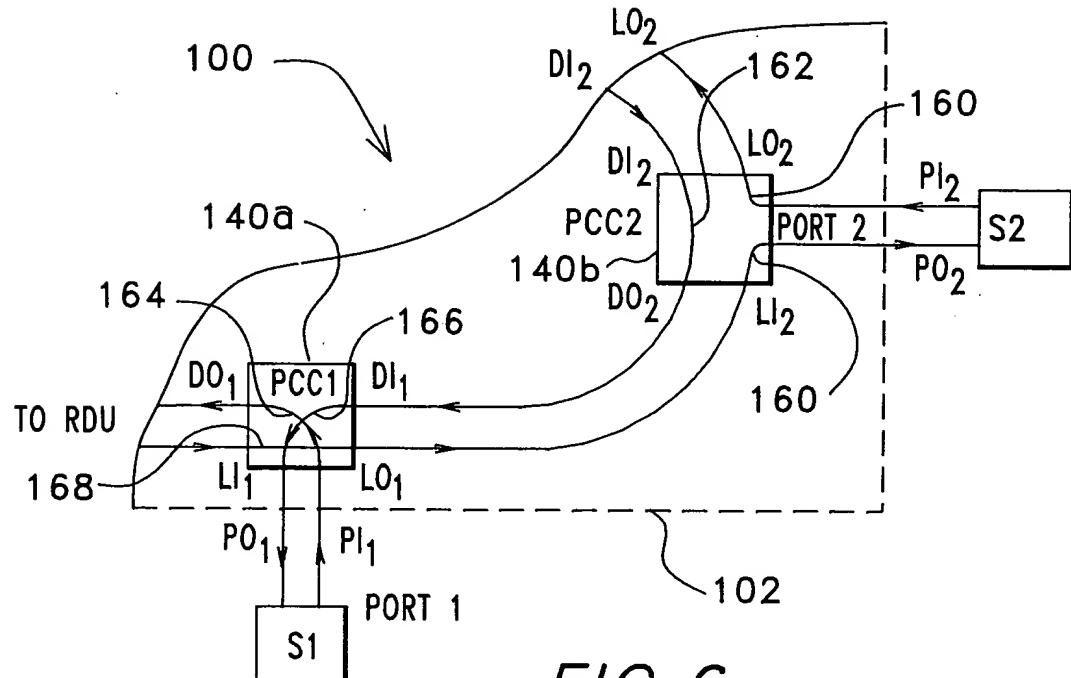


FIG. 4



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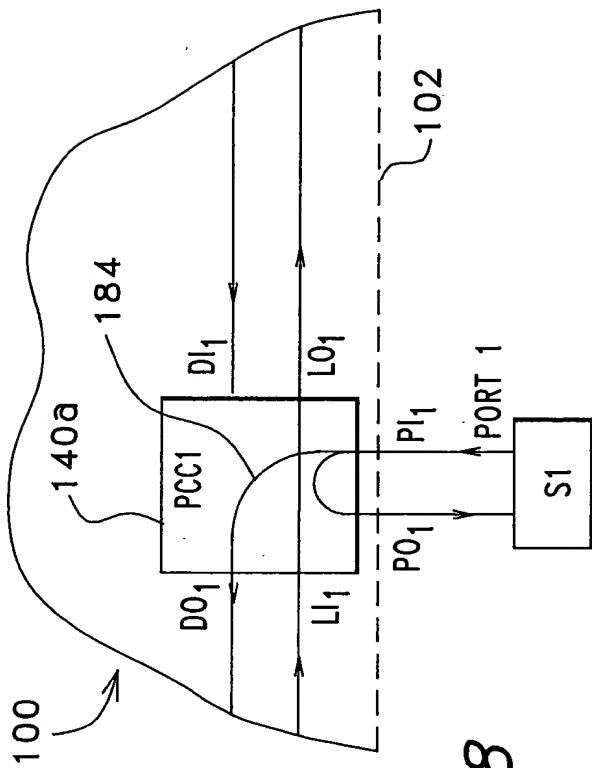
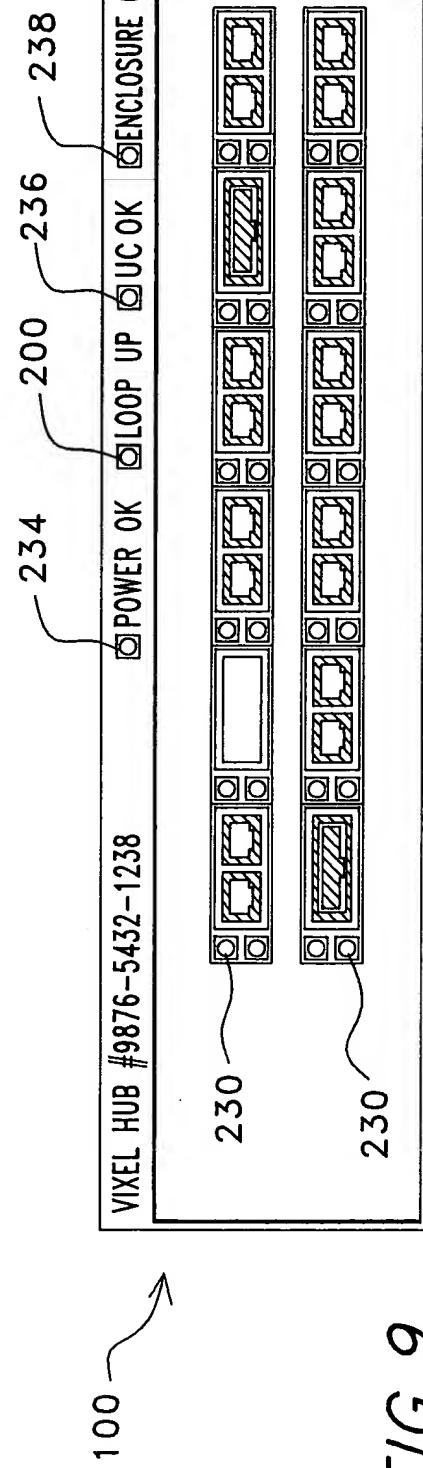


FIG. 8



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FIG. 10

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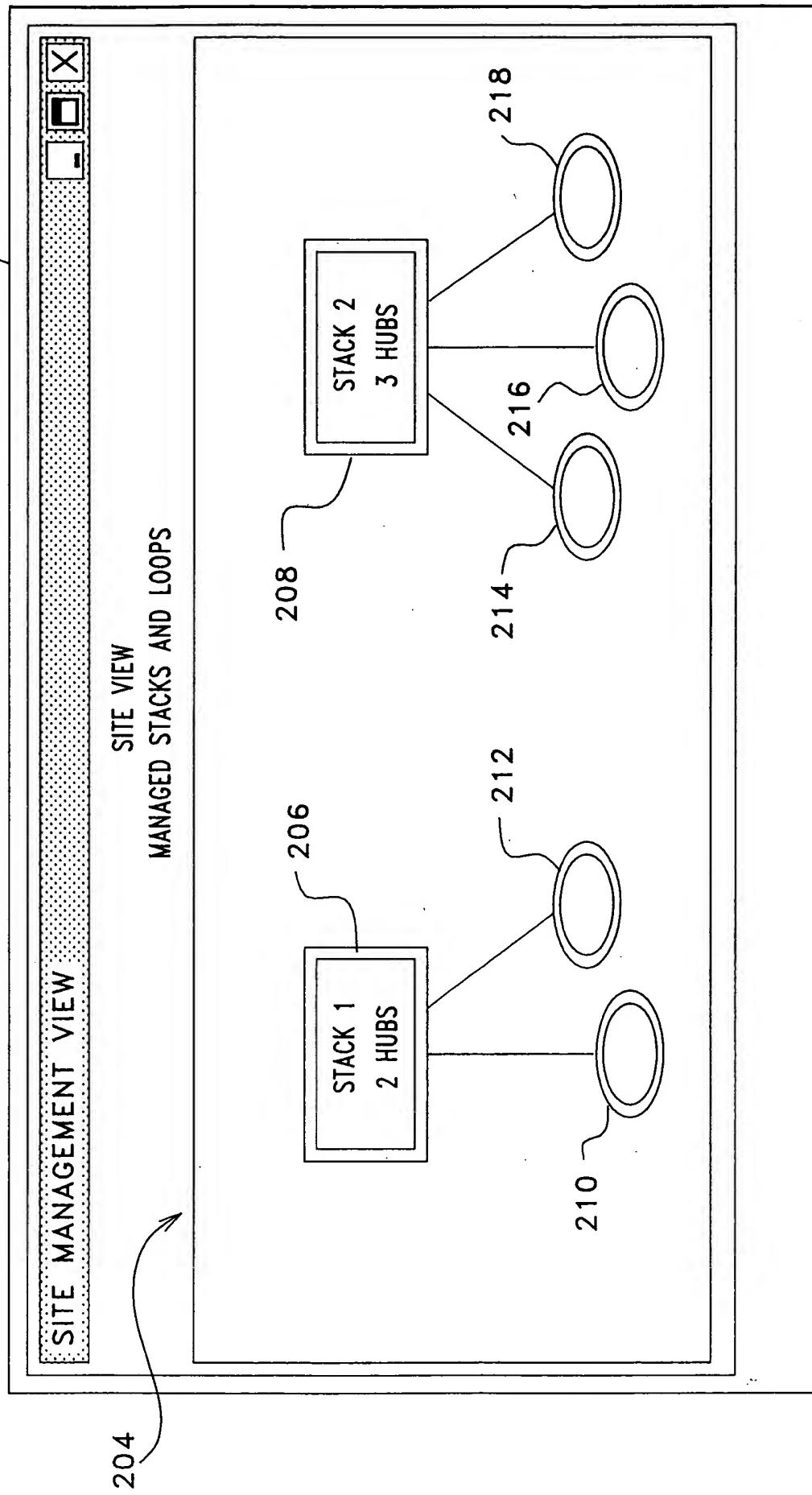


FIG. 11

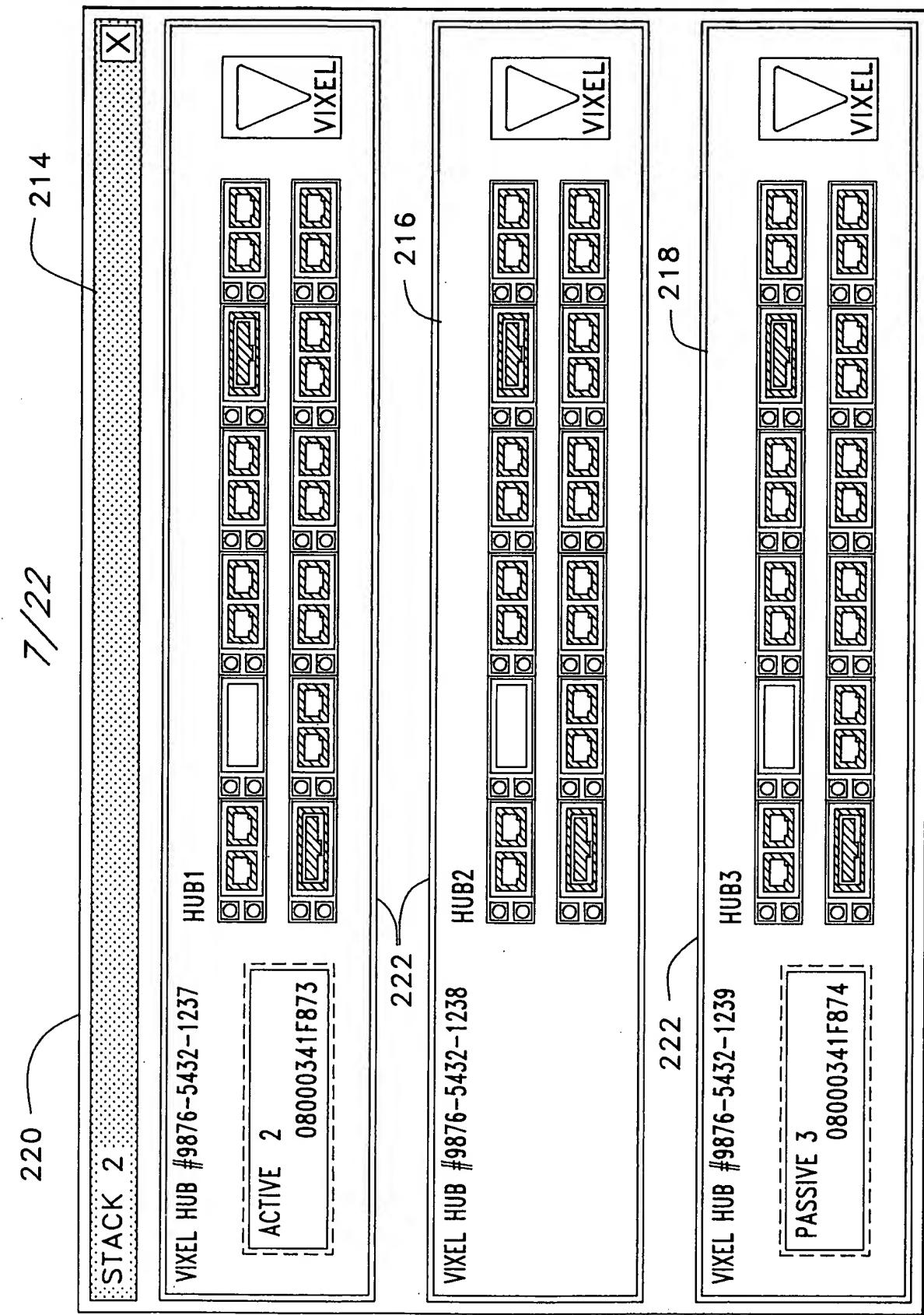
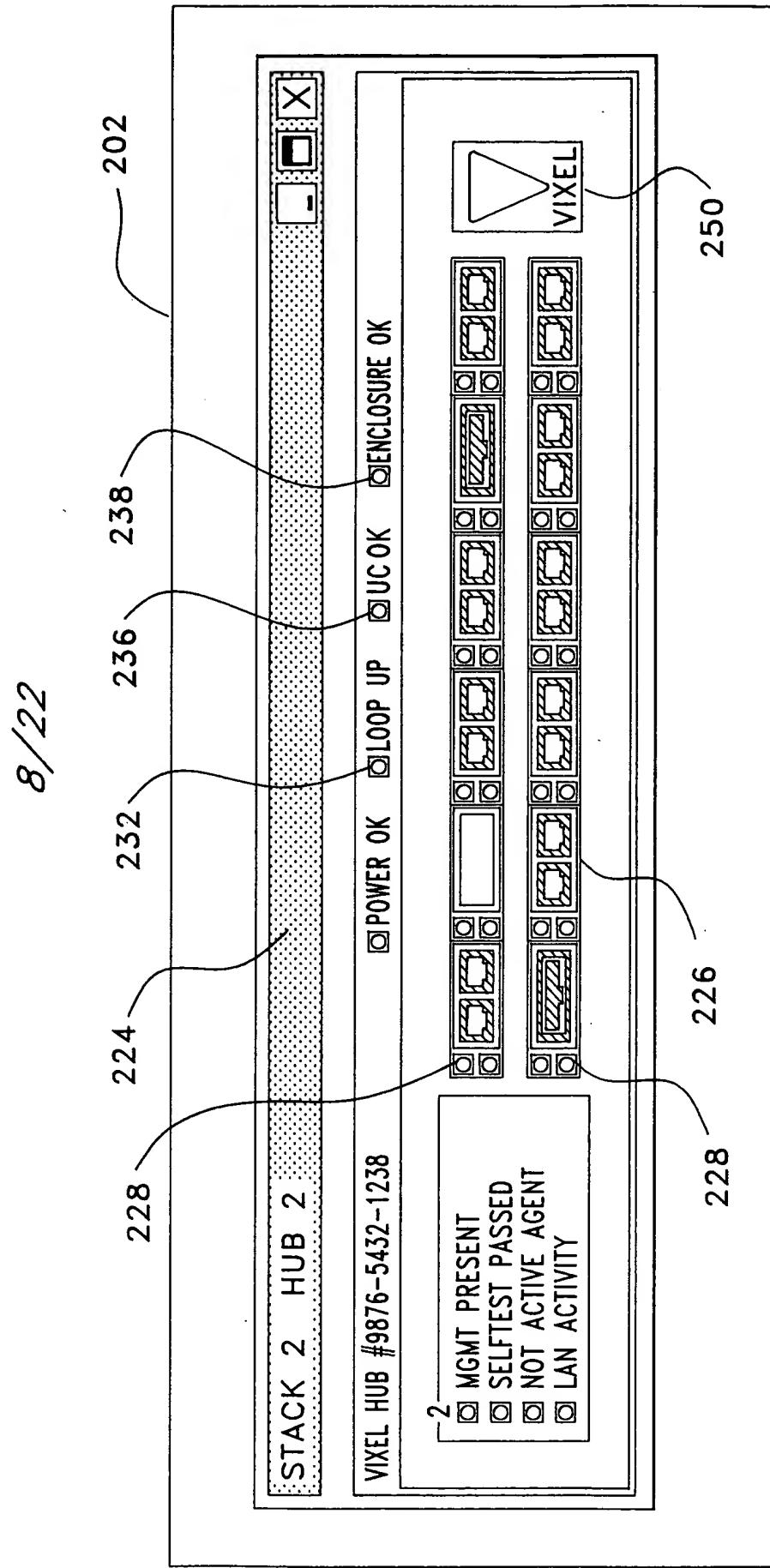
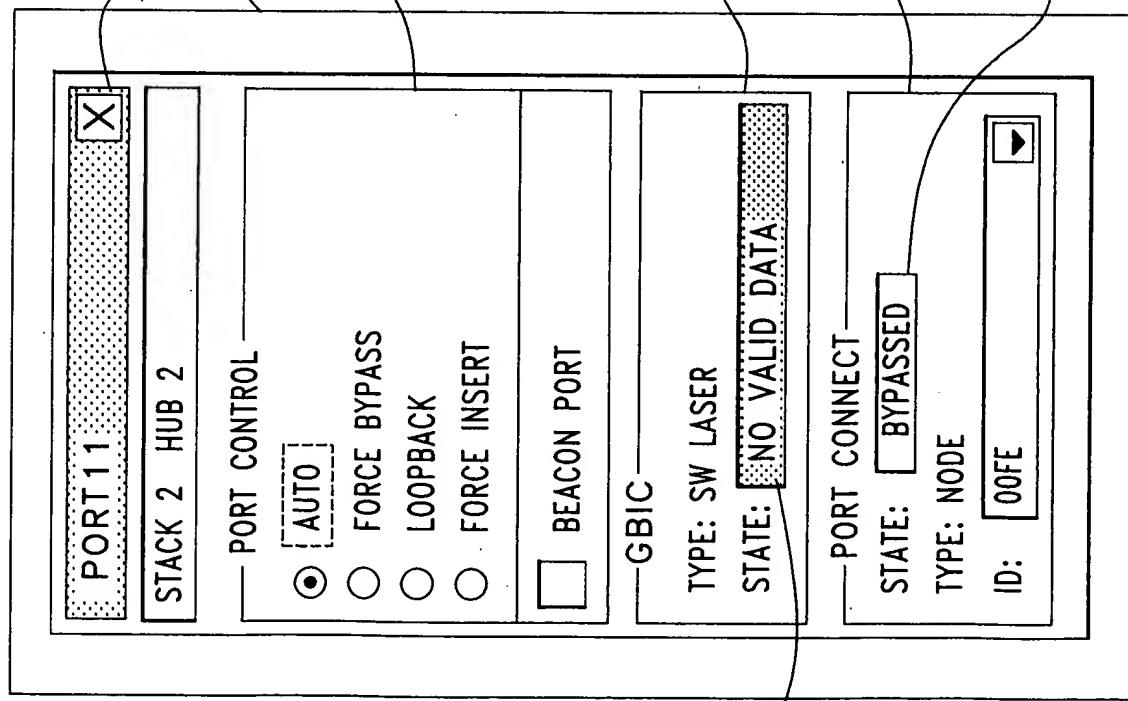


FIG. 12



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100

140a

D<sub>1</sub>  
D<sub>01</sub>  
U<sub>1</sub>

L<sub>01</sub>  
P<sub>1</sub>  
P<sub>01</sub>  
TxP<sub>1</sub>

102  
TxP<sub>1</sub>

PORT 1  
RxS<sub>1</sub>  
S<sub>1</sub>

FIG. 16

FIG. 13

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202

-260-

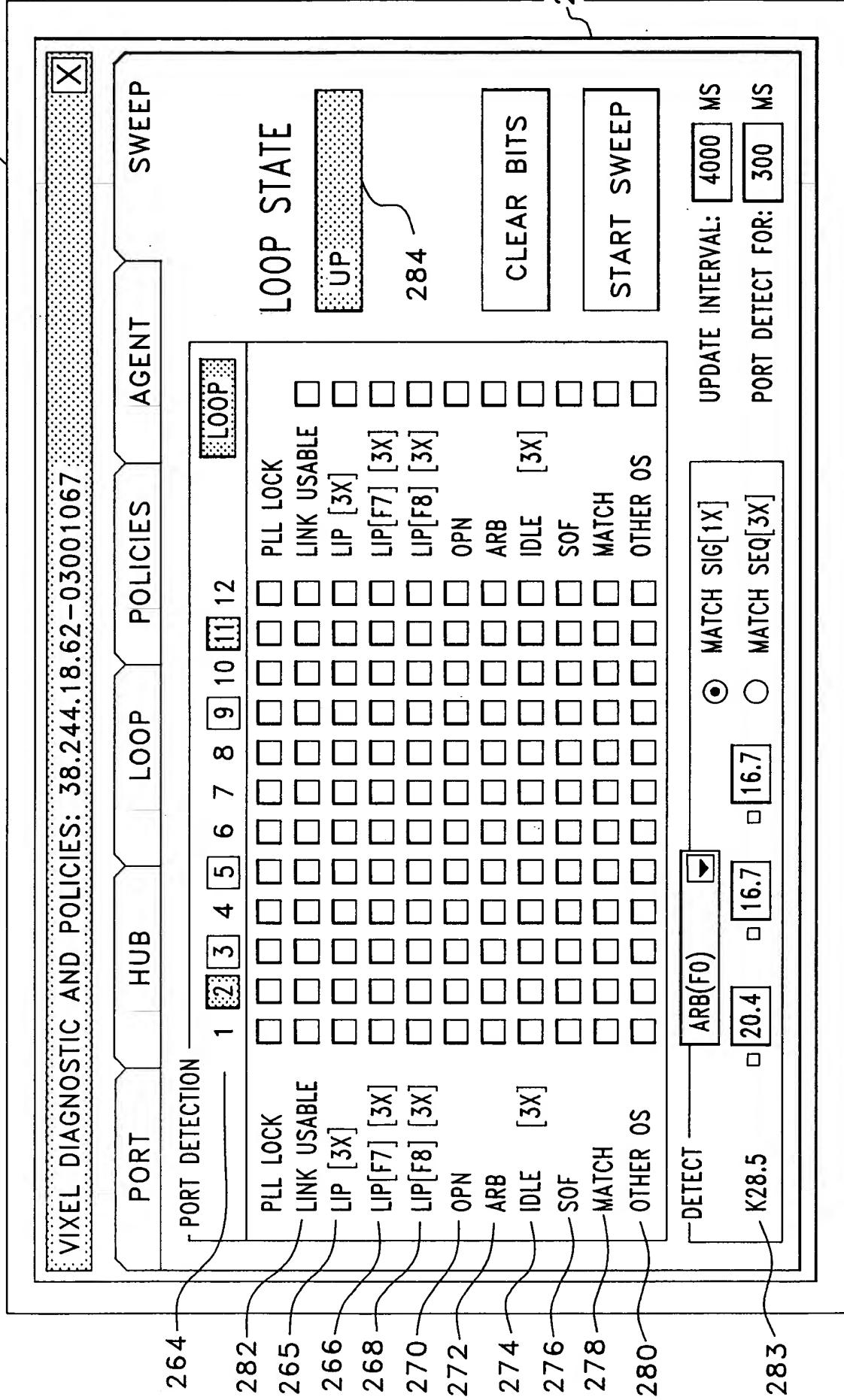
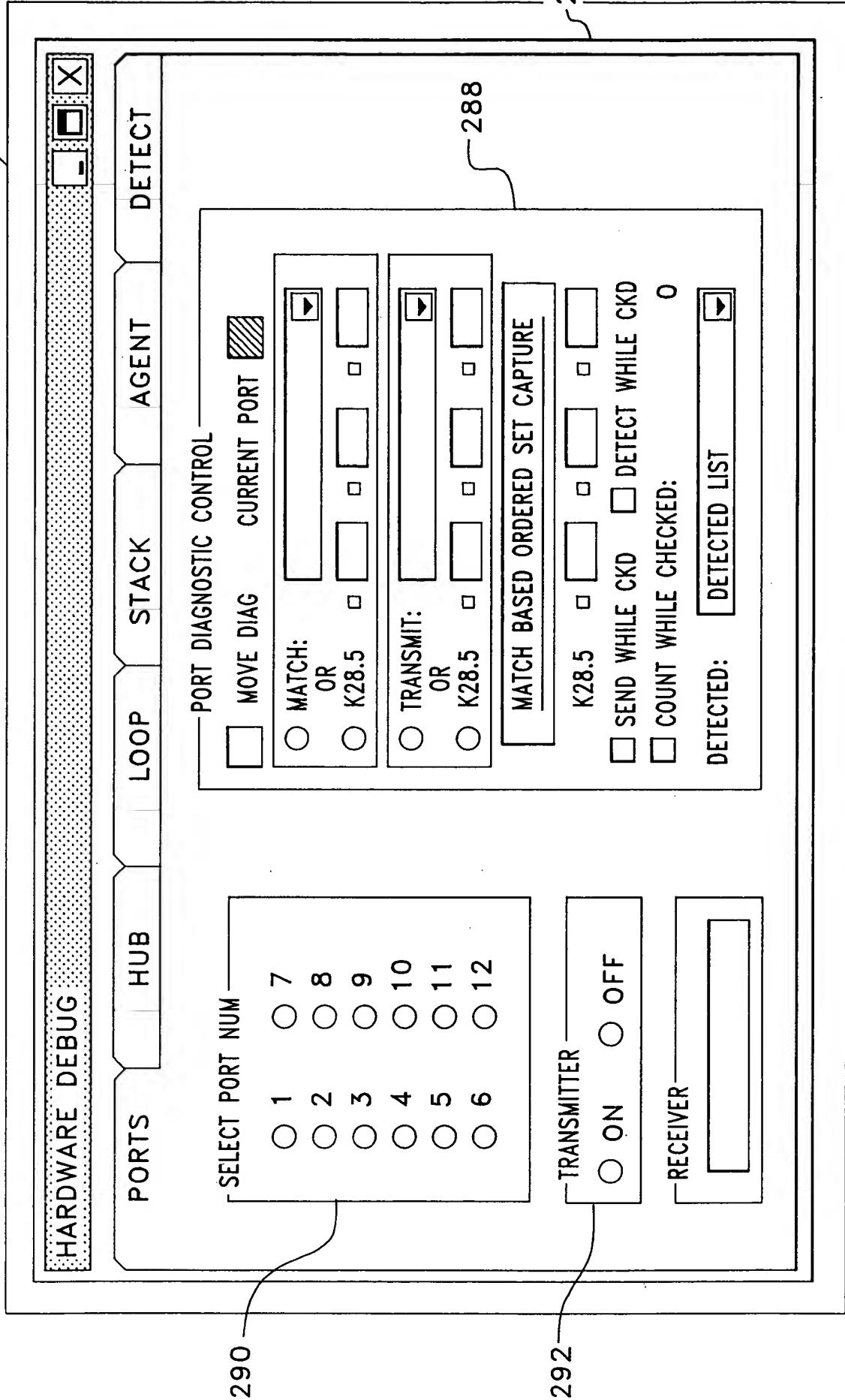


FIG. 14

FIG. 15

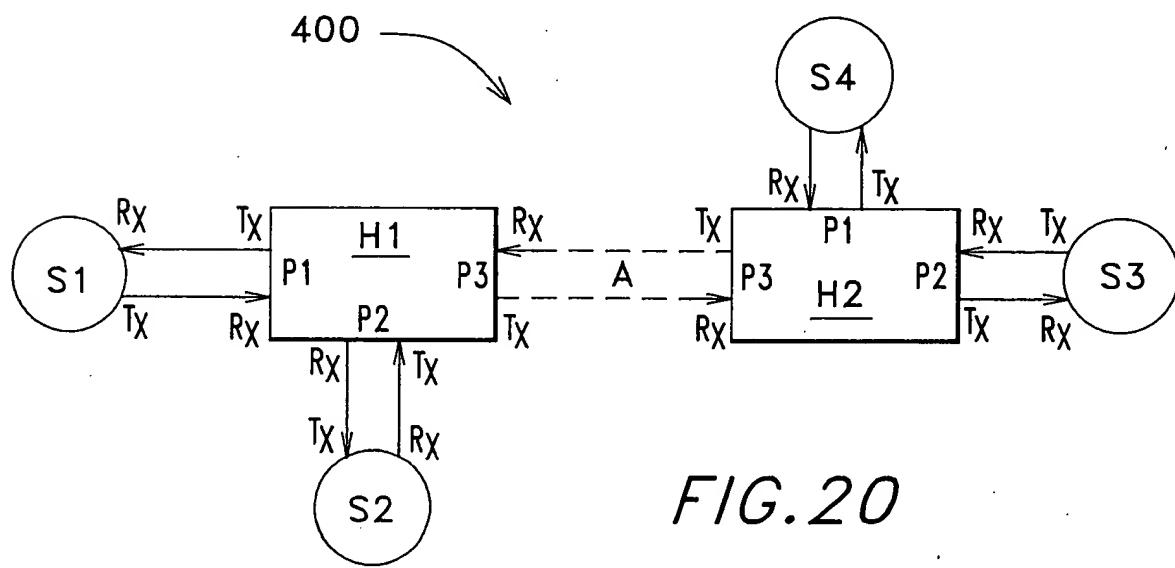
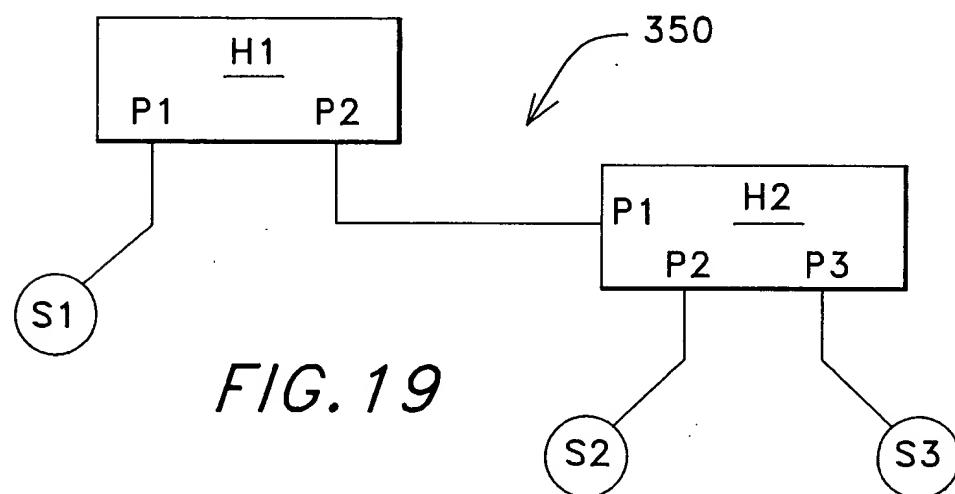
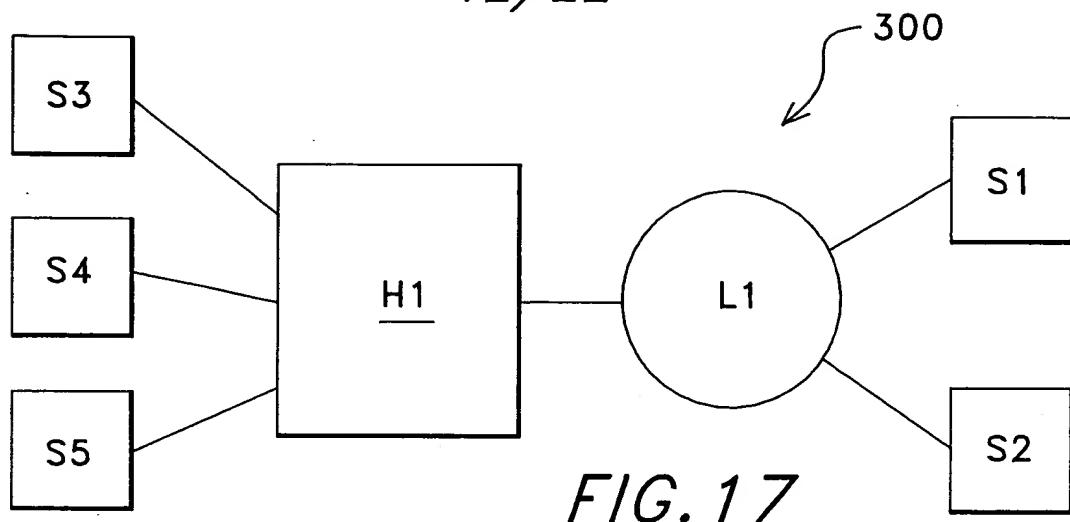
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202



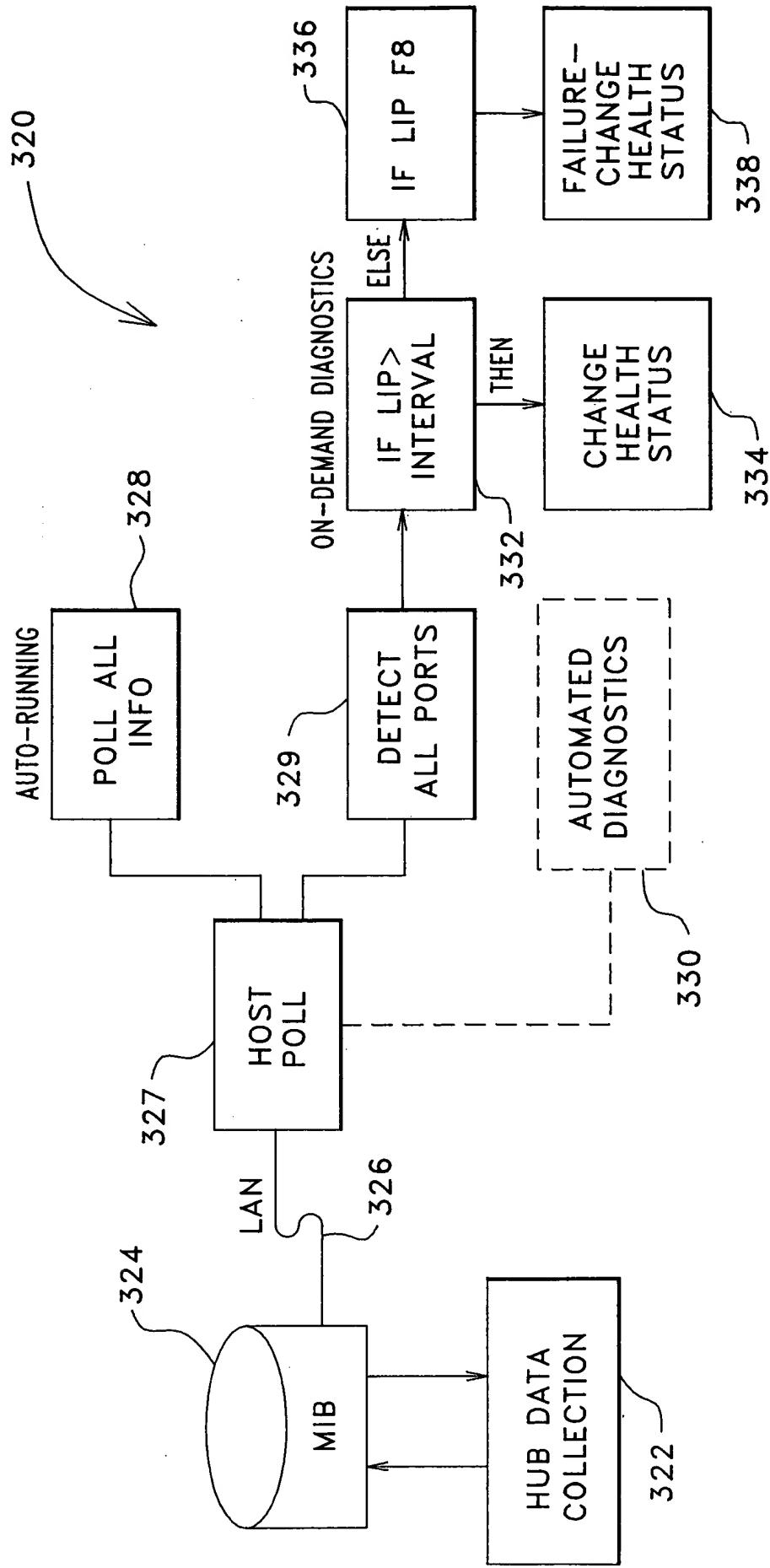
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F/G. 18

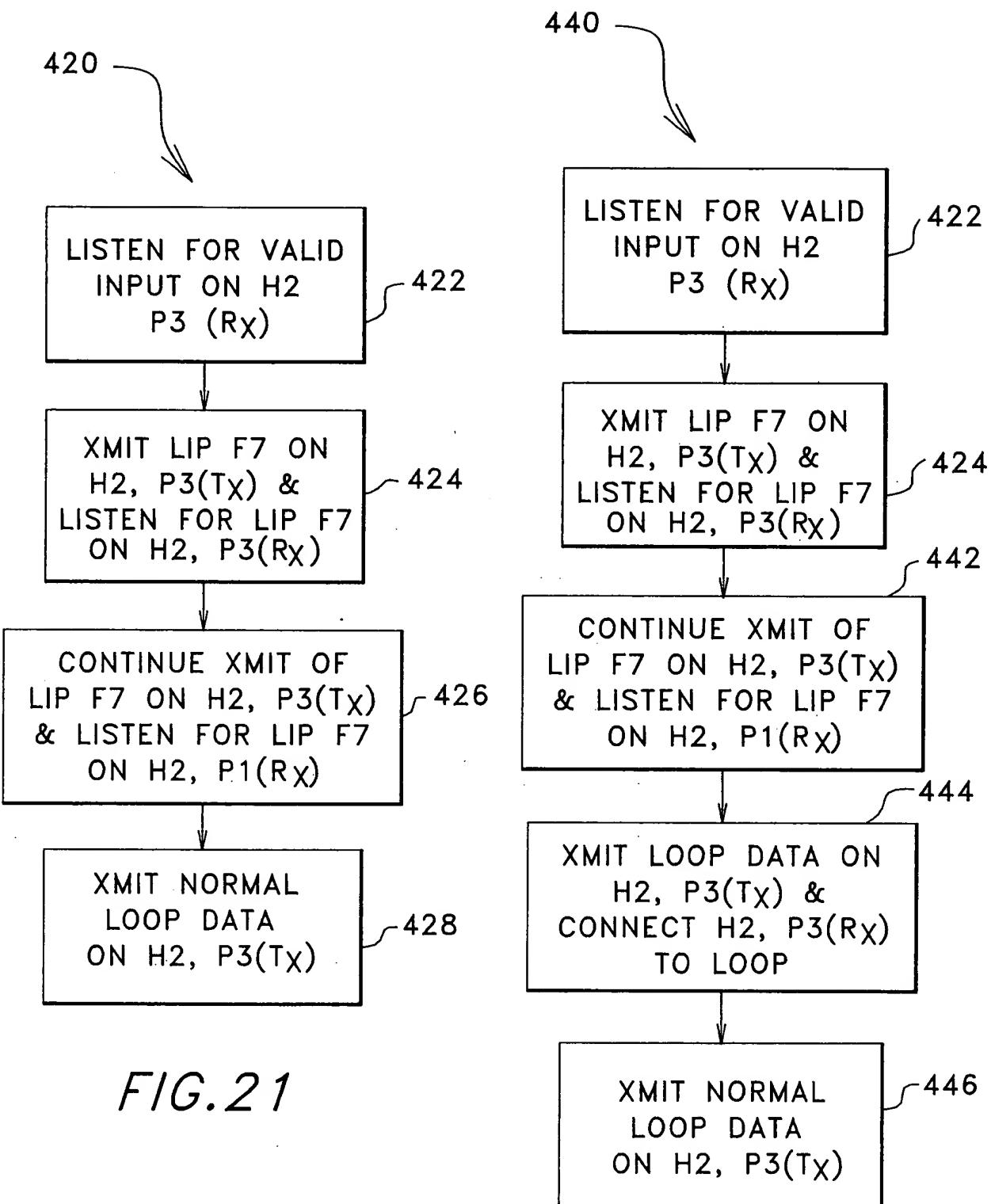


FIG.22

460

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REFCLK	1	○	30	CDR_SELN
LKDT	2		29	DIAG_SELN
VEET	3		28	LOOP_SELN
DIAG_OUT	4		27	DIAG_INN
DIAG_OUTN	5		26	DIAG_INN
VCCE	6		25	VCCG
LOOP_IN	7		24	LOOP_OUT
LOOP_INN	8		23	LOOP_OUTN
VEEG	9		22	VCCE
PORT_IN	10		21	PORT_OUT
PORT_INN	11		20	PORT_OUTN
LKREFN	12		19	VEEE
VEEP	13		18	PORT_SELON
LPF1	14		17	PORT_SELIN
LPF2	15		16	VCCP

500

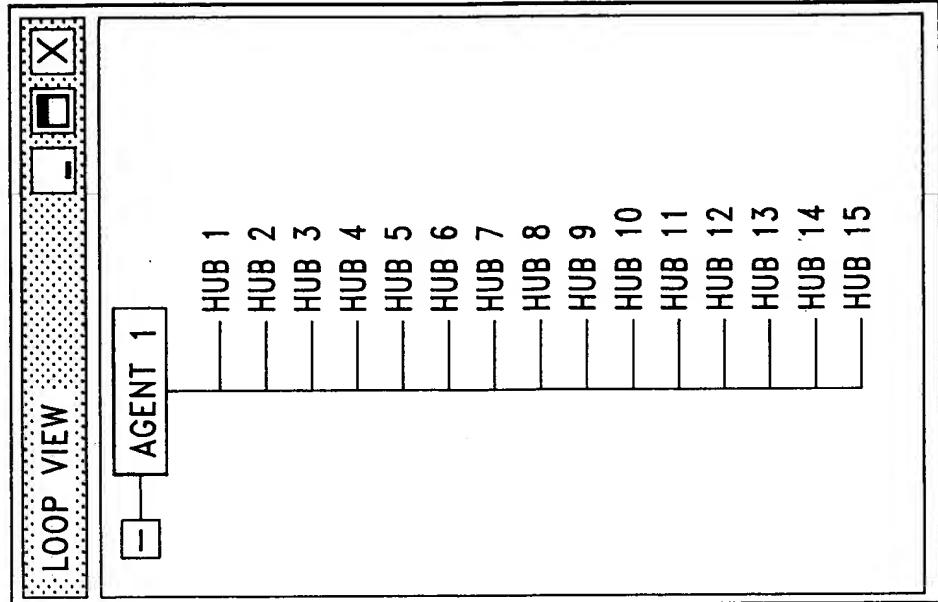


FIG.23

FIG.25

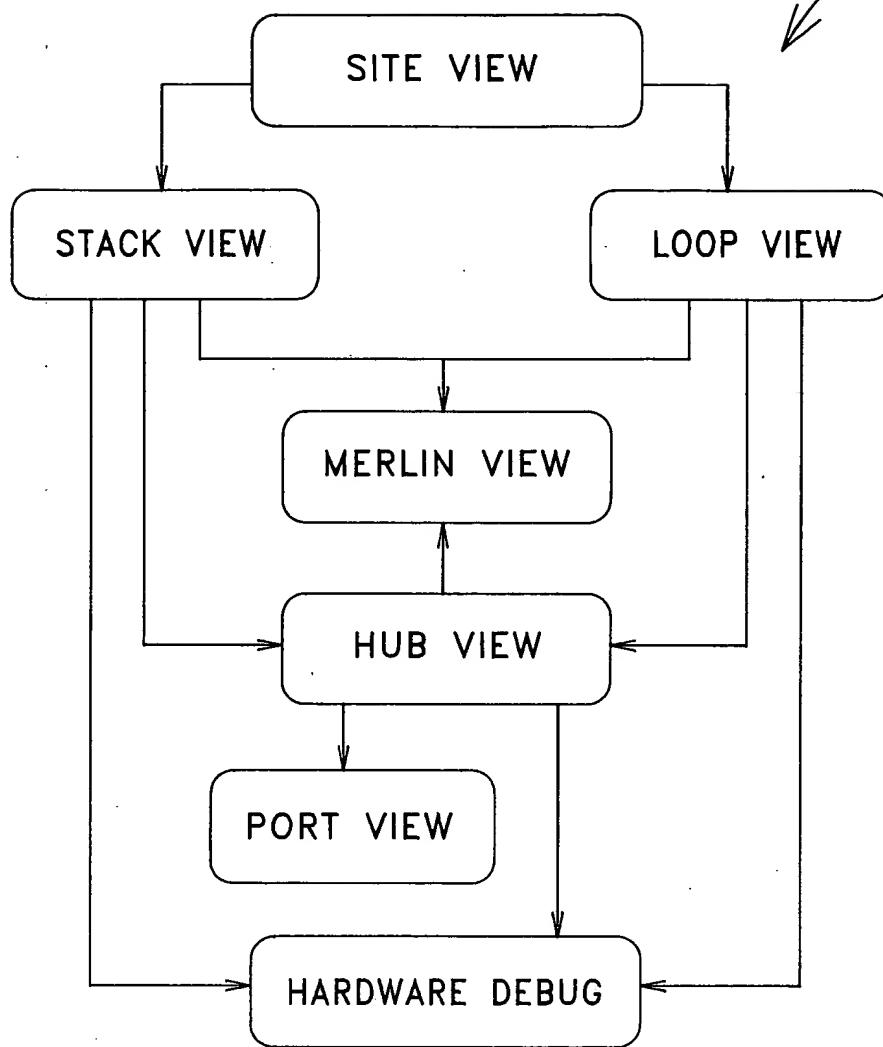


FIG.24

560

## MERLIN MANAGEMENT CARD STATUS SCREEN

SERIAL#:	02-00197-0002	ACTIVE:	YES
HW REVISION:	01.01	SW REVISION:	01.01
LOCATION:	<u>BLDG 54</u>	NAME:	<u>MERLIN 1</u>
IP ADDRESS:	<u>24.34.233.148</u>	MAC ADDRESS:	<u>080009123456</u>
PRIORITY:	<u>7</u>	<u>FORCE ACTIVE</u>	

MGMT PASSWORD \*\*\*\*\*

FIG.28

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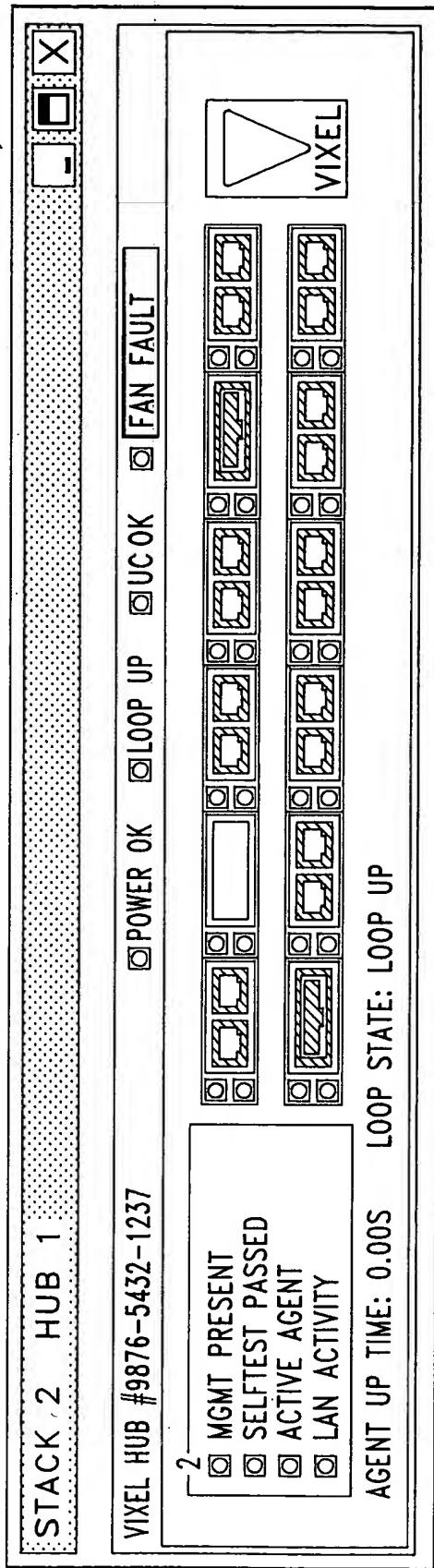


FIG. 26

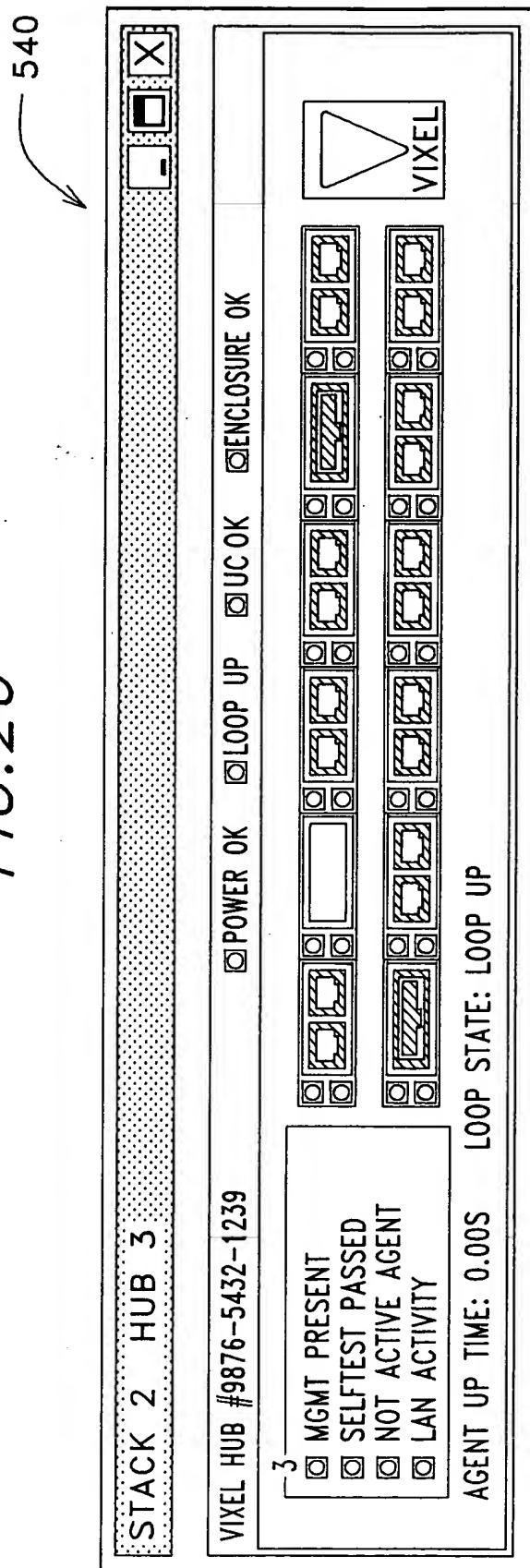


FIG. 27

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HARDWARE DEBUG	
<input type="checkbox"/> X	
PORTS	
HUB	
LOOP	
STACK	
AGENT	
DETECT	
SELECT PORT NUM	
<input type="radio"/> 1 <input type="radio"/> 7	
<input type="radio"/> 2 <input type="radio"/> 8	
<input type="radio"/> 3 <input type="radio"/> 9	
<input type="radio"/> 4 <input type="radio"/> 10	
<input type="radio"/> 5 <input type="radio"/> 11	
<input type="radio"/> 6 <input type="radio"/> 12	
PORT DIAGNOSTIC CONTROL	
<input type="checkbox"/> MOVE DIAG	
<input type="checkbox"/> CURRENT PORT	
<input type="radio"/> MATCH: OR <input type="radio"/> K28.5	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<input type="radio"/> TRANSMIT: OR <input type="radio"/> K28.5	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
MATCH BASED ORDERED SET CAPTURE	
<input type="checkbox"/> K28.5	
<input type="checkbox"/> SEND WHILE CKD	
<input type="checkbox"/> DETECT WHILE CKD	
<input type="checkbox"/> COUNT WHILE CHECKED: 0	
<input type="checkbox"/> DETECTED LIST	
<input type="checkbox"/> <input type="checkbox"/>	
TRANSMITTER	
<input type="radio"/> ON <input type="radio"/> OFF	
RECEIVER	
<input type="checkbox"/>	

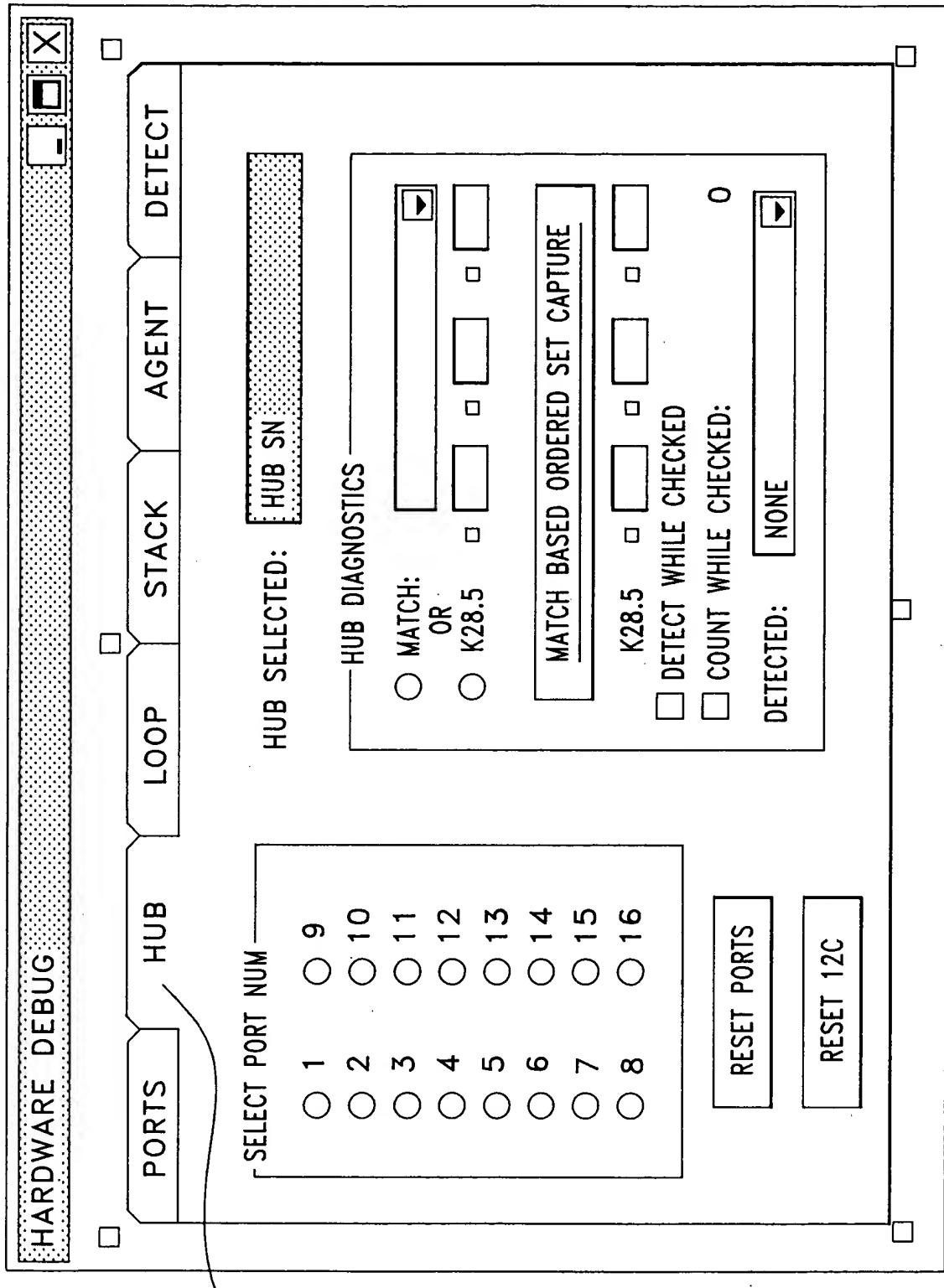
582

FIG. 29

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580

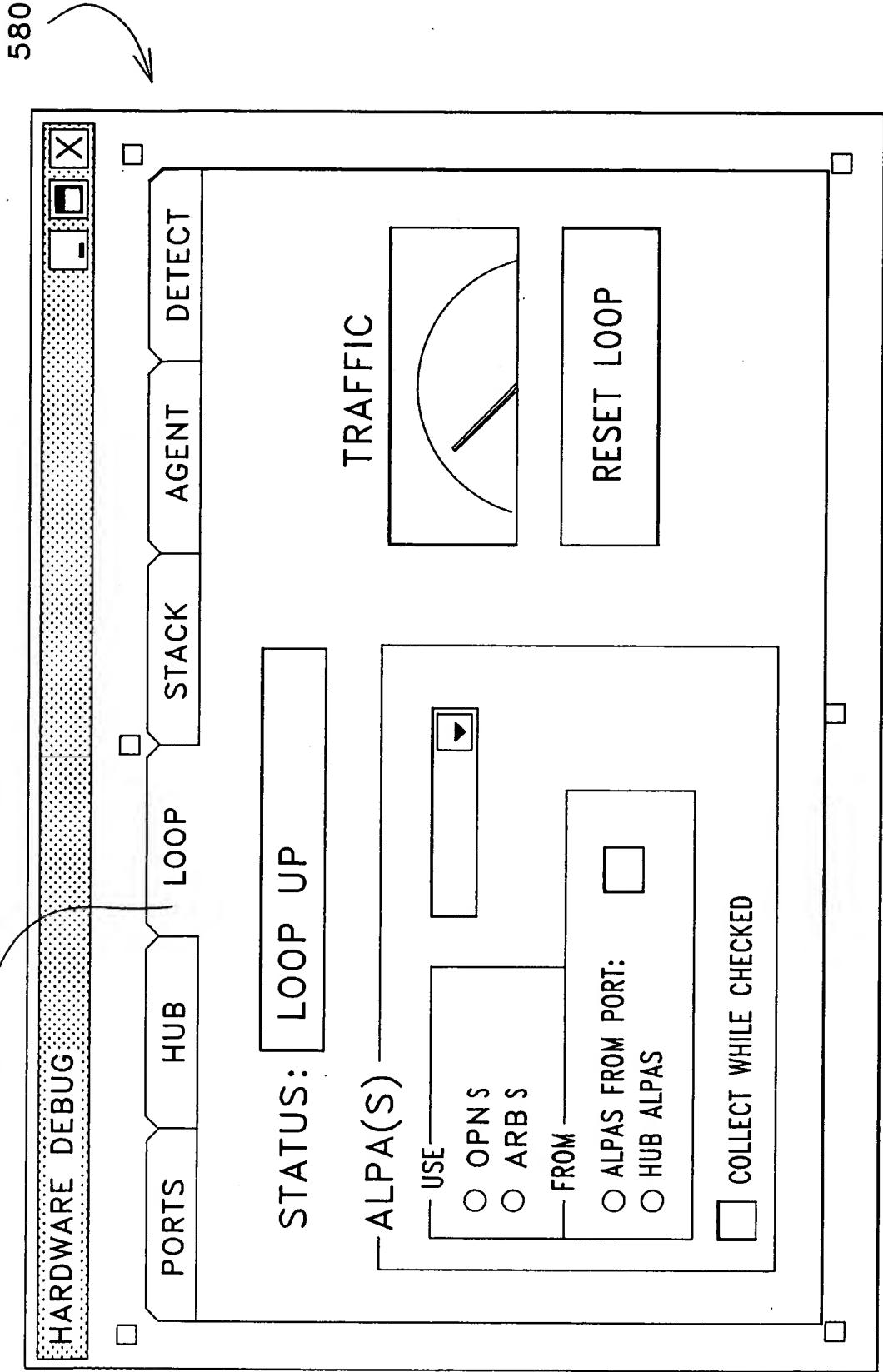


582

FIG. 30

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586



580

FIG. 31

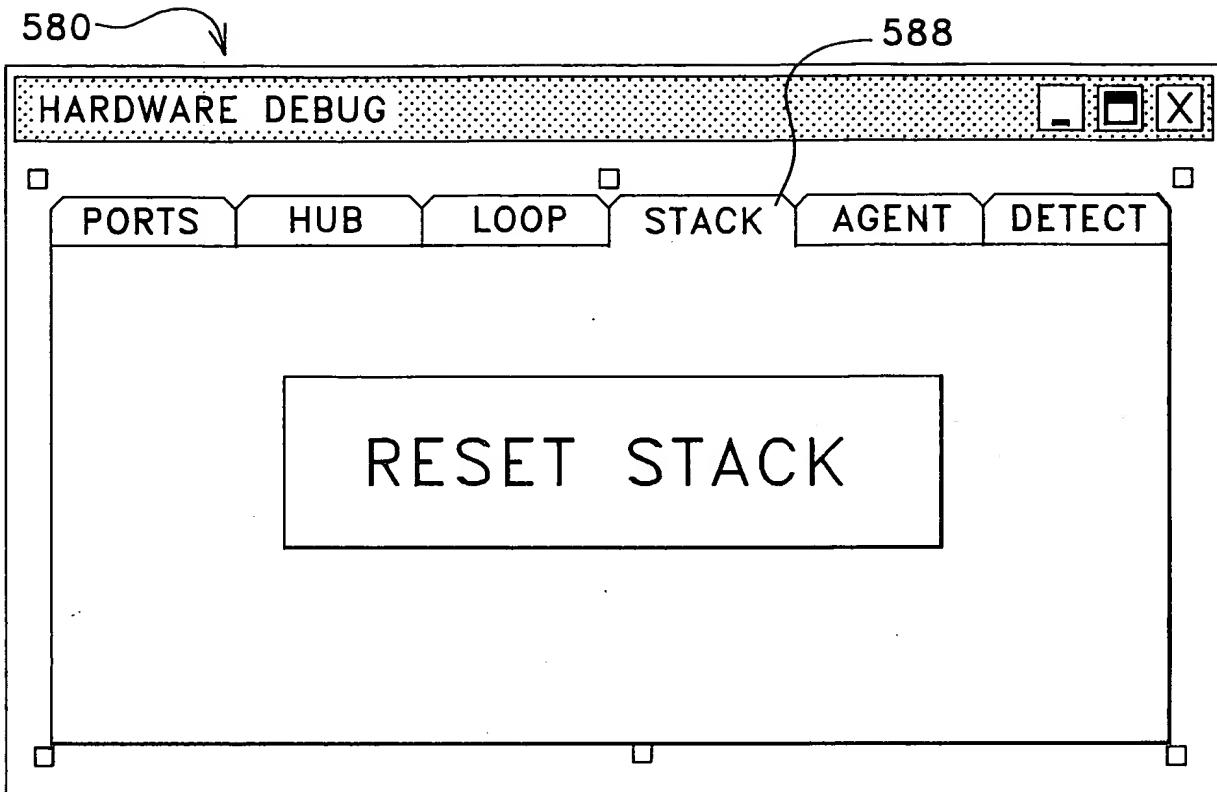


FIG.32

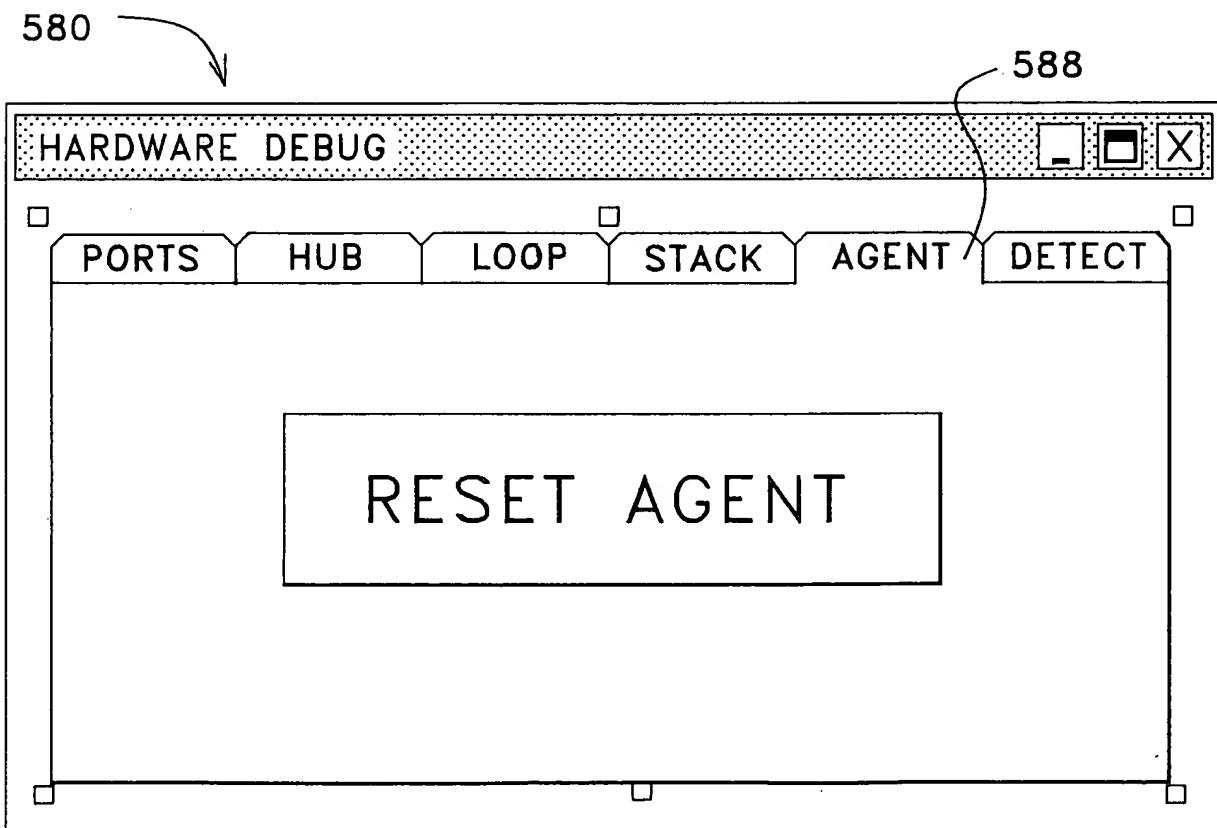


FIG.33

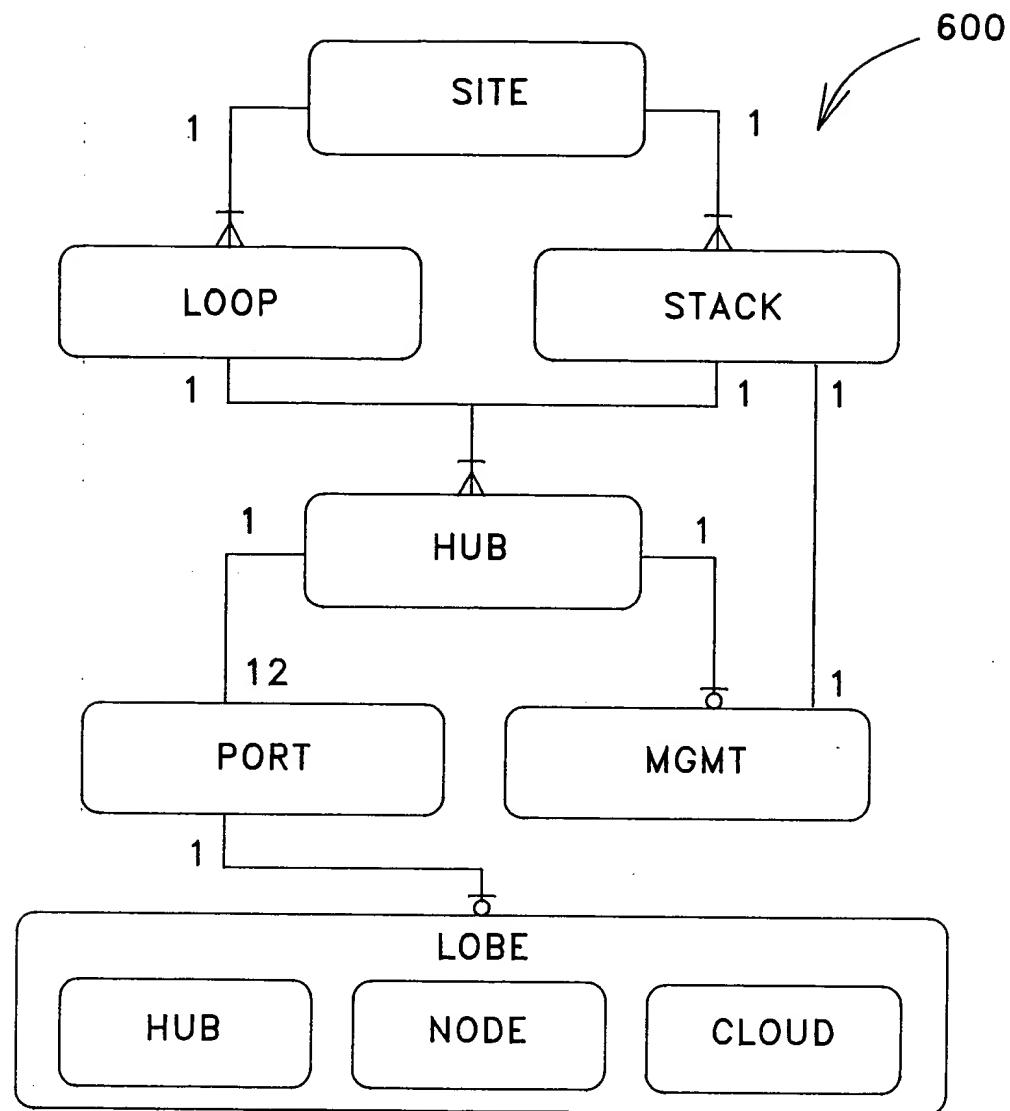


FIG.34